



PTO-1449 (REV. 8-83) SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	U.S. Department of Commerce Patent and Trademark Office	ATTY. DOCKET: 2002834-0232	IN RE APPLICATION NO.: 10/728,323
		APPLICANT: Caplan	
		FILING DATE: December 4, 2003	GROUP: 1644

U.S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
Pak	*6,486,311	Burks, Jr. et al.	November 26, 2002	536	23.6
Pak	*5,328,991	Kuo	July 12, 1994	530	403

U.S. PATENT APPLICATIONS

Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
Pak	*EP 0 819 763	Europe	21 January 1998		

OTHER DOCUMENTS

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
Pak	*Chatel, et al., "Various Factors (Allergen Nature, Mouse Strain, CpG/Recombinant Protein Expressed) Influence the Immune Response Elicited by Genetic Immunization", <i>Allergy</i> , 58: 641-647, 2003.
	*Evans, et al., "Non-Replicating Oral Whole Cell Vaccine Protective Against Enterotoxigenic Escherichia Coli (ETEC) Diarrhea: Stimulation of Anti-CFA (CFA/I) and Anti-Enterotoxin (Anti-LT) Intestinal IgA and Protection Against Challenge with ETEC Belonging to Heterologous Serotypes", <i>FEMS Microbiology Immunology</i> , 47: 117-126, 1988.
	*Gotlieb, "Scientists Develop Vaccine Strategy for Peanut Allergy", <i>BMJ</i> , 318: 894, 1999.
	*Vrtala, et al., "Conversion of the Major Birch Pollen Allergen, Bet v 1, into Two Nonanaphylactic T Cell Epitope-Containing Fragments", <i>J. Clin. Invest.</i> 99(7): 1673-1681, 1997.

EXAMINER:	DATE CONSIDERED: 8/2/05
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line

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(REV. 8-83)	SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>	APPLICANT: Caplan	
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PTO-1449
(REV. 8-83)

U.S. Department of
Commerce
Patent and Trademark Office

ATTY. DOCKET:
2002834-0232

IN RE
APPLICATION NO.:
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**SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**
(Use several sheets if necessary)

APPLICANT: Caplan

FILING DATE:
December 4, 2003

GROUP: 1644

U.S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
Polt ↓	*6,221,648	Le Page et al.	April 24, 2001	435	252.3
	*5,888,799	Curtis, III	March 30, 1999	435	252.3
	*5,834,246	Holmgren et al.	November 10, 1998	435	69.7
	*5,830,463	Duke et al.	November 3, 1998	424	93.51

U.S. PATENT APPLICATIONS

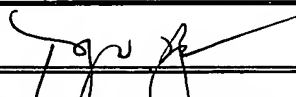
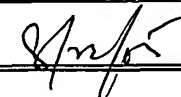
Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
Polt	*WO 99/38978	International	05 August 1999		
Polt	*WO 98/23763	International	04 June 1998		

OTHER DOCUMENTS

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
Polt	*Banks, et al., "Chemistry and Pharmacology of Honey-Bee Venom", <i>Venoms of the Hymenoptera</i> , 329-416, 1986.
	*Eko, et al., "New Strategies for Combination Vaccines Based on the Extended Recombinant Bacterial Ghost System", <i>Vaccine</i> , 17: 1643-1649, 1999.
	*Gentshev, et al., "Development of Antigen-Delivery Systems, Based on the Escherichia Coli Hemolysin Secretion Pathway", <i>Gene</i> , 179: 133-140, 1996.
↓	*Hess, et al., "Superior Efficacy of Secreted Over Somatic Antigen Display in Recombinant Salmonella Vaccine Induced Protection Against Listeriosis", <i>Proc. Natl. Acad. Sci. USA</i> , 93: 1458-1463, 1996.

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U.S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
Pat	*5,820,880	Alving et al.	October 13, 1998	424	450
Pat	*5,759,572	Sugimoto et al.	June 2, 1998	424	450

U.S. PATENT APPLICATIONS

Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No

OTHER DOCUMENTS

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
Pat	*Koppelman, et al., "Peanut Allergen Ara h 3: Isolation from peanuts and biochemical characterization", <i>Allergy</i> , 58: 1144-1151, 2003.
Pat	*Triozi, et al., "Effects of a β -Human Chorionic Gonadotropin Subunit Immunogen Administered in Aqueous Solution with a Novel Nonionic Block Copolymer Adjuvant in Patients with Advanced Cancer", <i>Clinical Cancer Research</i> , 3: 2355-2362, 1997.

EXAMINER	DATE CONSIDERED
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U.S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass

U.S. PATENT APPLICATIONS

Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:

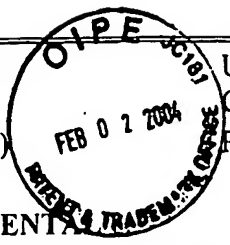
FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
Patt	EP 0 080 806	Europe	08 June 1983		
↓	WO 98/44096	PCT	08 October 1998		
↓	WO 96/14876	PCT	23 May 1996		

OTHER DOCUMENTS

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
Patt	Hansen, "Vaccination with Heat-Killed Listeria as Adjuvant Reverses Established Allergen-Induced Airway Hyperreactivity and Inflammation: Role of CD8 ⁺ T Cells and IL-18", <i>The Journal of Immunology</i> , 164: 223-230, 2000.
Patt	Mekalanos, "Bacterial Mucosal Vaccines" in Genetically Engineered Vaccines, Edited by Ciardi et al., Plenum Press, Pages 43-50, 1992.

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U.S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
PK	6,218,371	Krieg et al.	April 17, 2001	514	44
	5,061,790	Elting et al.	October 29, 1991	530	402
	4,959,314	Mark et al.	September 25, 1990	435	69.1
	4,849,404	Iwai et al.	July 18, 1989	514	2
	4,658,022	Knowles et al.	April 14, 1987	530	402

U.S. PATENT APPLICATIONS

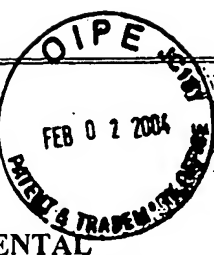
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Examiner's Initials	Document No.	Country	Date	Translation	
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OTHER DOCUMENTS

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
PK	Del Val, et al., "Thioredoxin Treatment Increases Digestibility and Lowers Allergenicity of Milk", <i>J. Allergy Clin. Immunol.</i> 103(4): 690-697, 1999.
	Hoyne, et al., "Peptide-Mediated Regulation of the Allergic Immune Response", <i>Immunol. Cell Biol.</i> 74(2): 180-186, 1996.
	Vailes, et al., "Fine Specificity of B-Cell Epitopes on Felis Domesticus Allergen I (Fel d I): Effect of Reduction and Alkylation or Deglycosylation of Fel d I Structure and Antibody Binding", <i>J. Allergy Clin. Immunol.</i> 93(1): 22-33, 1994.
	Burns, et al., "Selective Reduction of Disulfides by Tris (2-Carboxyethyl) Phosphine", <i>J. Org. Chem.</i> 56(8): 2648-2650, 1991.
	Gray, et al., "Echistatin Disulfide Bridges: Selective Reduction and Linkage Assignment", <i>The Protein Society</i> , 1749-1755, 1993.

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Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)		
RA	Gray, et al., "Disulfide Structures of Highly Bridged Peptides: A New Strategy for Analysis", <i>The Protein Society</i> , 1732-1748, 1993.		
	Herbert, et al., "Reduction and Alkylation of Proteins in Preparation of Two-Dimensional Map Analysis: Why, When, and How?" <i>Electrophoresis</i> , 22: 2046-2057, 2001.		
	Nakamura, et al., "Mass Spectrometric-Based Revision of the Structure of a Cysteine-Rich Peptide Toxin with Gamma-Carboxyglutamic Acid, TxVIIA, from the Sea Snail, Conus Textile", <i>Protein Science</i> , 5(3): 524-530, 1996.		
	Olsson, et al., "Contribution of Disulphide Bonds to Antigenicity of Lep d 2, the Major Allergen of the Dust Mite <i>Lepidoglyphus Destructor</i> ", <i>Molecular Immunology</i> , 35: 1017-1023, 1998.		
	Smith, et al., "Localization of Antigenic Sites on Der p 2 Using Oligonucleotide-Directed Mutagenesis Targeted to Predicted Surface Residues", <i>Clinical and Experimental Allergy</i> , 27: 593-599, 1997.		
	Smith, et al., "Recombinant Allergens for Immunotherapy: A Der p 2 Variant with Reduced IgE Reactivity Retains T-Cell Epitopes", <i>J. Allergy Clin. Immunol.</i> 101(3): 423-425, 1998.		
	Smith, et al., "Reduction in IgE Binding to Allergen Variants Generated by Site-Directed Mutagenesis: Contribution of Disulfide Bonds to the Antigenic Structure of the Major House Dust Mite Allergen Der p 2", <i>Molecular Immunology</i> , 33(4/5): 399-405, 1996.		
	Watson, et al., "Trapping and Identification of Folding Intermediates of Disulfide Bond-Forming Proteins Based on Cyanylation, Cleavage, and Analysis by Mass Spectrometry", http://www.abrf.org/JBT/Articles/JBT0014/JBT0014.html ." Pages 1-12.		
	Wu, et al., "A Novel Methodology for Assignment of Disulfide Bond Pairing in Proteins", <i>Protein Science</i> , 6(2): 391-398, 1997.		
✓	Zhou, et al., "Assignment of Disulfide Bonds in Proteins by Partial Acid Hydrolysis and Mass Spectrometry", <i>Journal of Protein Chemistry</i> , 9(5): 523-532, 1990.		
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U.S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
Pst	5,888,799	Curtiss III	March 30, 1999		
↓	5,830,463	Duke, et al.	November 3, 1998		
↓	5,389,368	Gurtiss III	February 14, 1995		

U.S. PATENT APPLICATIONS

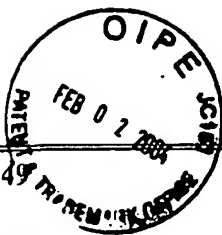
Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
Pst	CA 2 158 047	Canada	15 September 1994		
↓	CA 2 157 596	Canada	29 September 1994		
↓	JP 07095887	Japan	11 April 1995		
↓	JP 06253851	Japan	13 September 1994		
↓	WO 00/54803	PCT	21 September 2000		
↓	WO 99/25387	PCT	27 May 1999		
↓	WO 94/20614	PCT	15 September 1994		

OTHER DOCUMENTS

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
Pst	Burks, et al., "Epitope Specificity of the Major Peanut Allergen, Ara h II", <i>J. Allergy Clin. Immunol.</i> 95: 607-611, 1995.
Pst	Gayler, et al., "Biosynthesis, cDNA and Amino Acid Sequences of a Precursor of Conglutin δ, A Sulphur-Rich Protein from <i>Lupinus Angustifolius</i> ", <i>Plant Molecular Biology</i> , 15: 879-893, 1990.



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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT: Caplan, et al.	
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Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)				
Patt	Ichikawa, et al., "Solution Structure of Der f 2, the Major Mite Allergen for Atopic Disease", <i>J. Mol. Chem.</i> , 273 : 356-360, 1998.				
	Medaglini, et al., "Mucosal and Systemic Immune Responses to a Recombinant Protein Expressed on the Surface of the Oral Commensal Bacterium <i>Streptococcus Gordonii</i> After Oral Colonization", <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 92 (15): 6868-6872, 1995.				
	Nishiyama, et al., "Analysis of the IgE-epitope of Der f 2, a Major Mite Allergen, by in vitro Mutagenesis", <i>Mol. Immunol.</i> , 32 : 1021-1029, 1995.				
	Nishiyama, et al., "Effects of Amino Acid Variations in Recombinant Der f II on its Human IgE and Mouse IgG Recognition", <i>Int. Arch. Allergy Immunol.</i> , 105 : 62-69, 1994.				
	Takai, et al., "Effect of Proline Mutations in the Major House Dust Mite Allergen Der f 2 on IgE-binding and Histamine-releasing Activity", <i>Eur. J. Biochem.</i> , 267 : 6650-6656, 2000.				
	Takai, et al., "Non-anaphylactic Combination of Partially Deleted Fragments of the Major House Dust Mite Allergen Der f 2 for Allergen-specific Immunotherapy", <i>Mol. Immunol.</i> , 36 : 1055-1065, 1999.				
	Takai, et al., "Determination of the N- and C-terminal Sequences to Bind Human IgE of the Major House Dust Mite Allergen Der f 2 and Epitope Mapping for Monoclonal Antibodies", <i>Mol. Immunol.</i> , 34 : 255-261, 1997.				
	Takai, et al., "Engineering of the Major House Dust Mite Allergen Der f 2 for Allergen-specific Immunotherapy", <i>Nat. Biotechnol.</i> , 15 : 754-758, 1997.				
	Vrtala, et al., "Humoral Immune Responses to Recombinant Tree Pollen Allergens (Bet v 1 and Bet v II) in Mice: Construction of a Live Oral Allergy Vaccine", <i>International Archives of Allergy and Immunology</i> , 107 : (1-3): 290-294, 1995.				
	EMBL Accession No. L77197 (March 1996)				
EXAMINER	[Signature]			DATE CONSIDERED 8/21/05	
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Form PTO-1449 U.S. Department of Commerce
(REV. 8-83) Patent and Trademark Office

Atty. Docket:
2002834-0232

In re Application No.: NYA

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicants: Caplan et al.

Filing Date:
December 4, 2003

Group: ~~NYA~~

1644

ISSUED U. S. PATENTS

Examiners Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
PJK	*3,645,852	Axen, et al.	February 29, 1972	195	68
	*3,720,760	Bennich et al.	February 7, 1984	436	51.3
	*4,171,299	Hamburger	October 16, 1979	260	112.5
	*4,338,297	Michael et al.	July 6, 1982	424	91
	*4,469,677	Michael et al.	September 4, 1984	424	91
	*4,535,010	Axen et al.	August 13, 1985	427	246
	*4,579,840	Hahn et al.	April 1, 1986	514	14
	*4,659,678	Forrest et al.	April 21, 1987	436	512
	*4,696,915	Horecker	September 29, 1987		
	*4,816,449	Hahn et al.	March 28, 1989	514	17
	*4,849,337	Calenoff et al.	July 18, 1989	435	7
	*4,900,556	Wheatley, et al.	February 13, 1990	424	450
	*5,026,545	Saint-Remy et al.	June 25, 1991		
	*5,049,390	Wojdani	September 17, 1991	424	450
	*5,091,318	Anawis et al.	February 25, 1992	436	513
	*5,169,933	Anderson et al.	December 8, 1992	531	391.3
	*5,314,991	Oka et al.	May 24, 1994	530	350
	*5,449,669	Metcalf et al.	September 12, 1995	514	13
	*5,480,972	Avjioglu et al.	January 2, 1996	530	379
	*5,486,452	Gordon et al.	January 23, 1996	435	5
	*5,496,554	Oka et al.	March 5, 1996	424	276.1
	*5,543,144	Chang	August 6, 1996	424	133.1
	*5,547,669	Rogers et al.	August 20, 1996	424	185.1
	*5,558,869	Burks, Jr. et al.	September 24, 1996	424	276.1
	*5,583,046	Valenta et al.	December 10, 1996	435	320.1
	*5,591,433	Michael et al.	January 7, 1997	424	184.1
	*5,597,895	Gaynor et al.	January 28, 1997	530	324
	*5,616,559	Androphy et al.	April 1, 1997	514	12
	*5,625,039	Washida et al.	April 29, 1997	530	388.25
	*5,637,454	Harley	June 10, 1997	435	5
	*5,648,242	Valenta et al.	July 15, 1997	435	69.3
✓	*5,652,122	Frankel et al.	July 29, 1997	435	69.7

ISSUED U. S. PATENTS (Cont.)

Examiners Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
<i>DK</i>	*5,667,965	Androphy et al.	September 16, 1997	435	5
	*5,670,617	Frankel et al.	September 23, 1997	530	300
	*5,674,980	Frankel et al.	October 7, 1997	530	350
	*5,693,495	Breiteneder et al.	December 2, 1997	435	69.3
	*5,710,126	Griffith et al.	January 20, 1998	514	12
	*5,731,157	Miller et al.	March 24, 1998	435	7.4
	*5,736,149	Avjioglu et al.	April 7, 1998	424	275.1
	*5,747,641	Frankel et al.	May 5, 1998	530	300
	*5,773,003	Swain et al.	June 30, 1998	424	193.1
	*5,786,466	Breiteneder et al.	July 28, 1998	536	23.6
	*5,804,604	Frankel et al.	September 8, 1998	530	324
	*5,807,746	Lin et al.	September 15, 1998	435	375
	*5,820,862	Garman et al.	October 13, 1998	424	184.1
	*5,837,550	Breitenbach et al.	November 17, 1998	436	513
	*5,843,672	Morgenstern et al.,	December 1, 1998	435	7.1
	*5,843,710	Cobon et al.	December 1, 1998	435	69.1
	*5,869,040	Oin	February 9, 1999	424	93.21
	*5,888,762	Joliot et al.	March 30, 1999	435	69.1
	*5,891,716	Morgenstern et al.,	April 6, 1999	435	325
	*5,891,432	Hoo	April 6, 1999	424	93.21
	*5,939,283	Morgenstern et al.,	August 17, 1999	435	69.1
	*5,973,121	Burks, Jr., et al.	October 26, 1999	530	370
	*5,989,814	Frankel et al.	November 23, 1999	435	6
	*5,998,583	Korsmeyer	December 7, 1999	530	350
	*6,008,340	Ball et al.	December 28, 1999	536	23.6
<i>✓</i>	*6,060,082	Chen et al.	May 9, 2000	424	450

U.S. PATENT APPLICATIONS

Examiner's Initials	Serial Number	Applicant	Filing Date	Class	Subclass
<i>DK</i>	*07/998,377		December 30, 1992		
	*08/158,704		November 29, 1993		
	*08/610,424		March 4, 1996		
	*09/015,657		January 28, 1999		
	*09/336,463		June 18, 1999		
	*60/009,455		December 29, 1995		
	*08/610,424		March 4, 1996		
	*08/717,933		September 23, 1996		
	*09/106,872		June 29, 1998		
<i>✓</i>	*60/077,763		March 13, 1998		

U.S. PATENT APPLICATIONS (Cont.)

Examiner's Initials	Serial Number	Applicant	Filing Date	Class	Subclass
P.H.	*09/267,719		March 11, 1999		
	*60/073,283		January 31, 1998		
	*60/074,690		February 13, 1998		
	*60/074,624		February 13, 1998		
	*60/074,633		February 13, 1998		
	*09/241,101		January 29, 1999		
	*09/248,673		February 11, 1999		
	*09/248,674		February 11, 1999		
	*60/073,171		January 30, 1998		
	*09/238,448		January 28, 1999		
	*09/090,375		June 4, 1998		
	*09/141,220		August 27, 1998		
	*09/478,668		January 6, 2000		
	*09/240,557		January 29, 1999		
	*60/122,450		March 2, 1999		
	*60/112,452		March 2, 1999		
	*60/122,560		March 2, 1999		
	*60/122,565		March 2, 1999		
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	*09/494,096		January 28, 2000		
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	*EP 0684812	Europe	21 January 1998		
	*EP 0877033	Europe	11 November 1998		
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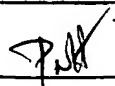
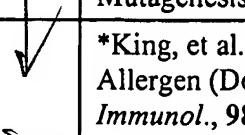
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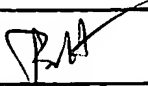
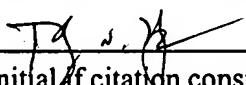

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		APPLICANT: Caplan	
		FILING DATE: December 4, 2003	GROUP: 1644

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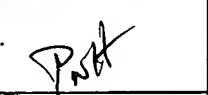

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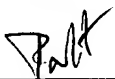

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




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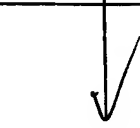
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